

2001 Saturn L300

2001 GENERAL MOTORS Saturn L-Series

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Saturn L-Series

BUZZERS, RELAYS & TIMERS

BUZZERS, RELAYS & TIMERS LOCATION

Component	Location
A/C Relay	In underhood fuse block (UHFB).
Air Pump Relay (2.2L California)	In underhood fuse block (UHFB).
DRL Relay	In underhood fuse block (UHFB).
DR Unlock Relay	In right instrument panel fuse block (RIPFB).
Fog Lamp Relay	In right instrument panel fuse block (RIPFB).
Fuel Pump Relay	In underhood fuse block (UHFB).
Horn Relay	In underhood fuse block (UHFB).
IGN 3 Relay	In left instrument panel fuse block (LIPFB).
Lock Relay	In right instrument panel fuse block (RIPFB).
Main Relay (3.0L)	In underhood fuse block (UHFB).
Mirror Relay	In right instrument panel fuse block (RIPFB).
Rear Defogger Relay	In left instrument panel fuse block (LIPFB).
Rear Wiper Relay	In underhood fuse block (UHFB).
Unlock Relay	In right instrument panel fuse block (RIPFB).
Window Relay	In right instrument panel fuse block (RIPFB).
Wiper Relay	In underhood fuse block (UHFB).

CIRCUIT PROTECTION DEVICES

CIRCUIT PROTECTION DEVICES LOCATION

Component	Location
Left Instrument Panel Fuse Block (LIPFB)	Behind left kick panel. See Fig. 5 .
Right Instrument Panel Fuse Block (RIPFB)	Behind right kick panel. See Fig. 5 .
Underhood Fuse Block (UHFB)	Left side of engine compartment. See Fig. 5 .

CONTROL UNITS

CONTROL UNITS LOCATION

Component	Location
Body Control Module (BCM)	Mounted to top of glove box. See Fig. 5 .
Cooling Fan Control Unit	Near battery.
Electronic Brake Traction Control Module (EBTCM)	At left rear of engine compartment.
Electronic Ignition (EI) Module (2.2L)	On top of engine, attached to ignition coil housing.

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	See Fig. 1 .
Electronic Ignition (EI) Module (1, 3, 5 Coil) (3.0L)	Under right side of upper intake manifold runner. See Fig. 4 .
Electronic Ignition (EI) Module (2, 4, 6 Coil) (3.0L)	Under left side of upper intake manifold runner. See Fig. 4 .
Engine Control Module (ECM) (3.0L)	On top right rear of engine. See Fig. 5 .
Powertrain Control Module (PCM) (2.2L)	Behind passenger side air bag. See Fig. 5 .
Sensing & Diagnostic Module (SDM)	Under rear of floor console.
Transaxle Control Module (TCM) (3.0L)	At right rear corner of engine compartment, behind strut tower.
Wheel Speed Signal Conditioner Module (2.2L)	Behind left side of dash, above hood release.

MOTORS

MOTORS LOCATION

Component	Location
Air Pump (2.2L)	On left side of engine, near starter.
Blower Motor	On HVAC assembly.
Brake Pressure Modulator Valve (BPMV)	On electronic brake traction control module.
Engine Cooling Fan 1 (Puller)	Behind radiator.
Engine Cooling Fan 2 (Pusher)	On front of A/C condenser.
Front Wiper Motor	Below left side of windshield.
Fuel Tank Unit	On top of fuel tank.
Heater Water Pump (3.0L)	On right side of engine.
Idle Air Control Motor (2.2L)	On throttle body.
Mode Door Motor	On HVAC assembly.
Rear Wiper Motor (Wagon)	In center of liftgate, behind trim.
Recirculation Door Motor	On HVAC assembly.
Throttle Control Module (3.0L)	On throttle body. See Fig. 3 .
Washer Pump	On rear of washer pump reservoir.

SENDING UNITS & SENSORS

SENDING UNITS & SENSORS LOCATION

Component	Location
Accelerator Pedal Position Sensor (3.0L)	On accelerator pedal linkage arm.
A/C Pressure Sensor	In A/C high side pressure line.
Camshaft Position (CMP) Sensor (3.0L)	On top left front of engine. See Fig. 4 .
Crankshaft Position (CKP) Sensor (2.2L)	On left side of engine block, above starter. See Fig. 1 .
Crankshaft Position (CKP) Sensor (3.0L)	On left rear side of engine, behind oil filter. See Fig. 4 .

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Engine Coolant Temperature (ECT) Sensor (2.2L)	On thermostat housing. See Fig. 2 .
Engine Coolant Temperature (ECT) Sensor (3.0L)	In lower coolant passage of left cylinder head. See Fig. 4 .
Front Wheel Speed Sensor (Left/Right)	On steering knuckle.
Fuel Tank Unit	On top of fuel tank.
Heated Oxygen Sensor (HO2S) Bank 1 Sensor 1 (3.0L)	On right exhaust manifold. See Fig. 3 .
Heated Oxygen Sensor (HO2S) Bank 1 Sensor 2 (3.0L)	In exhaust system, downstream of right pup converter.
Heated Oxygen Sensor (HO2S) Bank 2 Sensor 1 (3.0L)	On left exhaust manifold. See Fig. 4 .
Heated Oxygen Sensor (HO2S) Bank 2 Sensor 2 (3.0L)	In exhaust system, downstream of left pup converter.
Heated Oxygen Sensor (HO2S) Sensor 2 (2.2L)	Behind catalytic converter.
Intake Air Temperature (IAT) Sensor (2.2L)	In air intake passage of air induction system.
Knock Sensor (2.2L)	On engine block, under intake manifold. See Fig. 1 .
Knock Sensor (Cyl. 1, 3, 5) (3.0L)	On right side of engine, below exhaust manifold. See Fig. 3 .
Knock Sensor (Cyl. 2, 4, 6) (3.0L)	On left side of engine, below exhaust manifold. See Fig. 4 .
Low Coolant Level Sensor	On bottom of coolant surge tank.
Manifold Absolute Pressure (MAP) Sensor (2.2L)	On intake manifold. See Fig. 1 .
Manifold Absolute Pressure (MAP) Sensor (3.0L)	On intake manifold. See Fig. 3 .
Mass Airflow (MAF) Sensor (3.0L)	On air intake duct.
Output Speed Sensor	On right side of transaxle.
Oxygen Sensor 1 (O2S-1) (2.2L)	On exhaust manifold. See Fig. 2 .
Rear Wheel Speed Sensor (Left/Right)	On hub/bearing assembly.
Side Impact Sensor (Left/Right)	On respective lower "B" pillar.
Throttle Position Sensor (2.2L)	On throttle body. See Fig. 1 .

SOLENOIDS & SOLENOID VALVES

SOLENOIDS & SOLENOID VALVES LOCATION

Component	Location
Air Pump Solenoid (2.2L)	Right rear of engine, near thermostat housing.
Decklid Release Solenoid/Ajar Switch	At center rear of rear compartment lid.
EGR Solenoid (3.0L)	On top right front of engine. See Fig. 3 .
EVAP Purge Solenoid	At right side of engine compartment, forward of strut tower.
EVAP Vent Solenoid	At upper end of fuel filler pipe, in right rear wheel opening.
Fuel Tank Filler Door Lock Actuator	At right rear of cargo area, behind trim.

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Intake Plenum Switchover Solenoid (3.0L)	In intake manifold. See Fig. 3 .
Parklock Switch/BTSI Solenoid	At base of selector lever.

SWITCHES

SWITCHES LOCATION

Component	Location
Back-Up Lamp Switch (M/T)	On top rear of transaxle.
Brake/Cruise Switch	On brake pedal bracket.
Cruise Clutch Switch	On clutch pedal bracket.
Decklid Release Solenoid/Ajar Switch	At center rear of rear compartment lid.
Driver Seat Belt Switch	In driver's seat belt buckle.
Low Brake Fluid Switch	In master cylinder reservoir.
Oil Pressure Switch (2.2L)	On engine block, near oil filter. See Fig. 1 .
Oil Pressure Switch (3.0L)	On oil pump housing, on lower front of engine.
Parklock Switch/BTSI Solenoid	At base of selector lever.
Stoplight Switch	On brake pedal bracket.
Transaxle Range Switch	On top of transaxle.

MISCELLANEOUS

MISCELLANEOUS LOCATION

Component	Location
A/C Diode	In underhood fuse block (UHFB).
Blower Motor Resistors	On right side of HVAC assembly.
Data Link Connector (DLC)	Lower left side of dash.
Ignition Coils (2.2L)	On top of engine. See Fig. 1 .
RR Compressor Diode	In left instrument panel fuse block (LIPFB).

CONNECTORS

CONNECTORS LOCATION

Component	Location
Body To Courtesy Light Jumper (Left) (Gray, 2 Pin)	In left front door.
Body To Courtesy Light Jumper (Right) (Gray, 2 Pin)	In right front door.
Body To Headliner (Black, 12 Pin)	Behind upper right side of dash.
Body To Left Door Jumper No. 1 (Black, 2 Pin)	In left front door.
Body To Left Door Jumper No. 2 (Black, 8 Pin)	In left front door.
Body To Left Door Jumper No. 3 (Black, 6 Pin)	In left front door.
Body To Right Door Jumper No. 1 (Black, 2 Pin)	In right front door.

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Body To Right Door Jumper No. 2 (Black, 10 Pin)	In right front door.
CD Body To I/P (Blue, 10 Pin)	Near right instrument panel fuse block (RIPFB).
Console Jumper To I/P (Black, 6 Pin)	Below center console.
Decklid To Body (Black, 8 Pin)	At left side of luggage compartment.
Electronic Brake Traction Control Module Jumper To Body (Black, 4 Pin)	Near middle of rear suspension assembly.
EVAP Solenoid Jumper To Body (Black, 2 Pin)	Near filler neck.
Fuel Tank Jumper To Body (Black, 8 Pin)	Near middle of rear suspension assembly.
HVAC Module Jumper (Black, 12 Pin)	Behind HVAC module.
Injector Jumper To Engine (2.2L) (Black, 8 Pin)	On top of engine.
I/P To Body (Left) (Black, 12 Pin)	Near left instrument panel fuse block (LIPFB).
I/P To Body (Right) (White, 16 Pin)	Near right instrument panel fuse block (RIPFB).
Premium Sound Jumper To Body (Black, 6 Pin)	Near left instrument panel fuse block (LIPFB).
Premium Sound Jumper To Radio (Gray, 24 Pin)	Behind radio.
Rear Door Jumper To Body (Left) (Black, 15 Pin)	At bottom of left "B" pillar.
Rear Door Jumper To Body (Right) (Black, 15 Pin)	At bottom of right "B" pillar.

GROUNDS

GROUND LOCATION

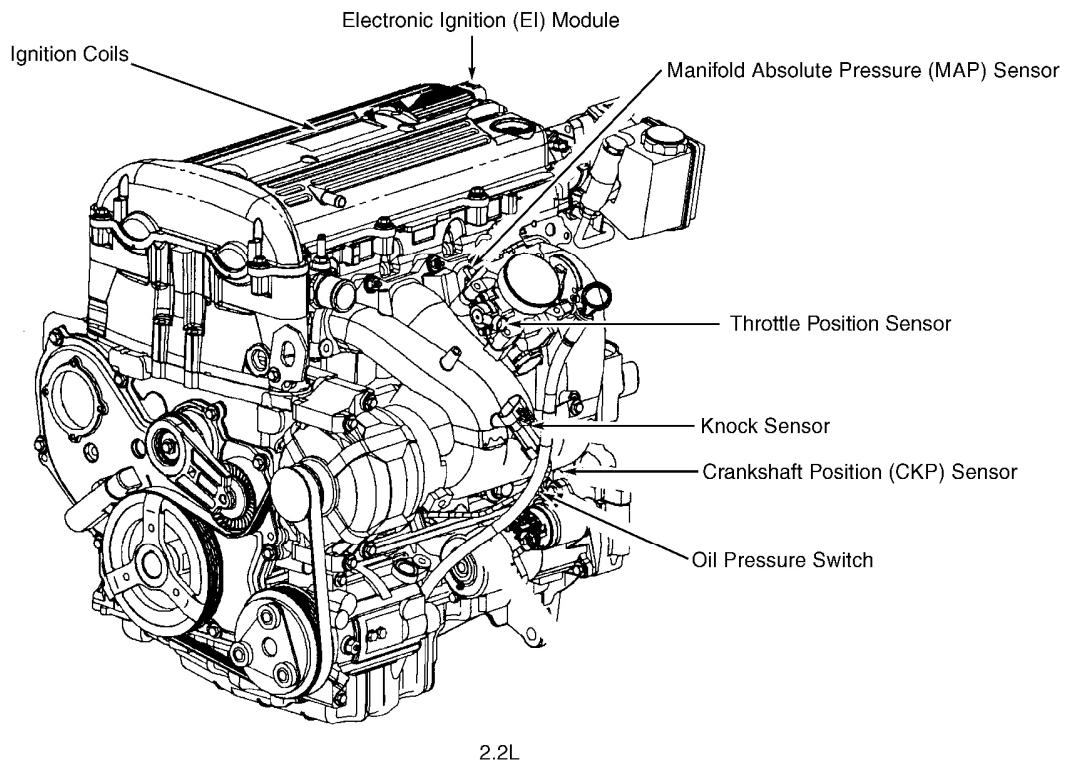
Component	Location
Engine Ground Splice Pack	Near center of engine compartment. See Fig. 6 .
I/P Ground Splice Pack (1)	At left rear of engine compartment. See Fig. 6 .
I/P Ground Splice Pack (2)	At left rear of engine compartment. See Fig. 6 .
Left Forward Light Ground Splice Pack	On front of left front fender. See Fig. 6 .
Rear Ground Splice Pack	At left rear of luggage compartment. See Fig. 6 .
Right Body Ground Splice Pack	Near rear of center console. See Fig. 6 .

COMPONENT LOCATION GRAPHICS

NOTE: Figures may show multiple component locations. Refer to appropriate table for proper figure references.

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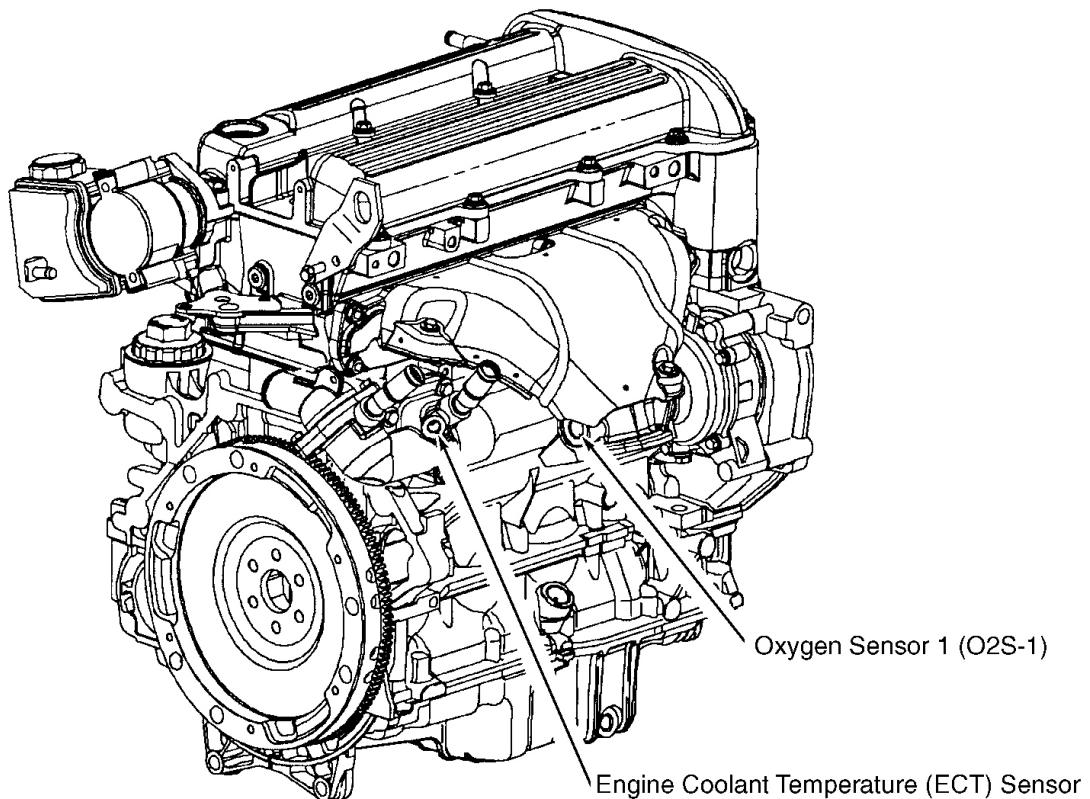
2.2L

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Fig. 1: Left Front Of Engine (2.2L)
Courtesy of GENERAL MOTORS CORP.

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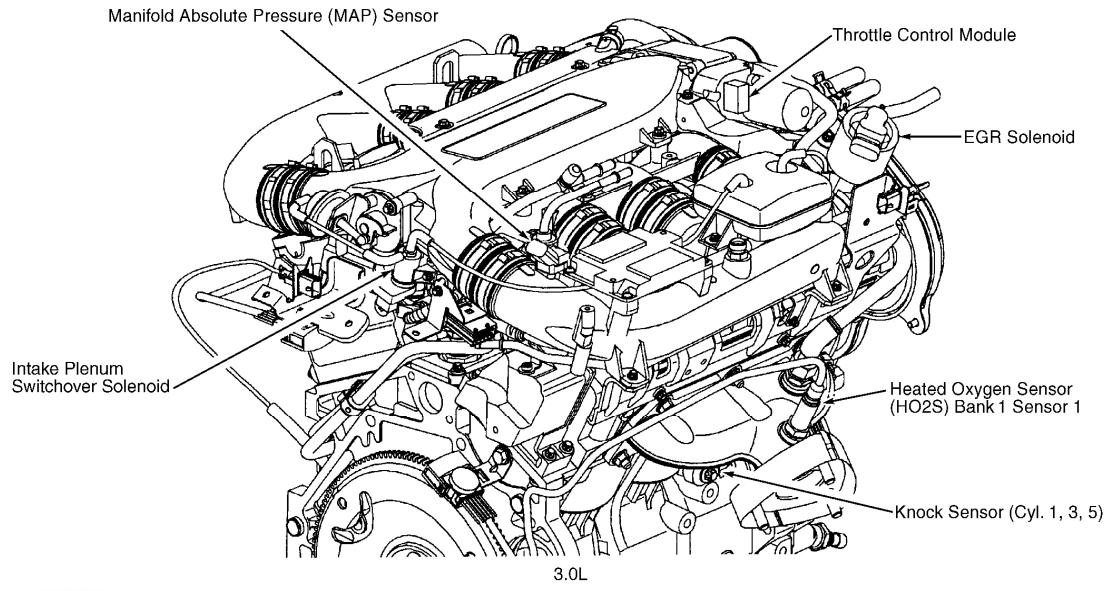
2.2L

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Fig. 2: Right Rear Of Engine (2.2L)
Courtesy of GENERAL MOTORS CORP.

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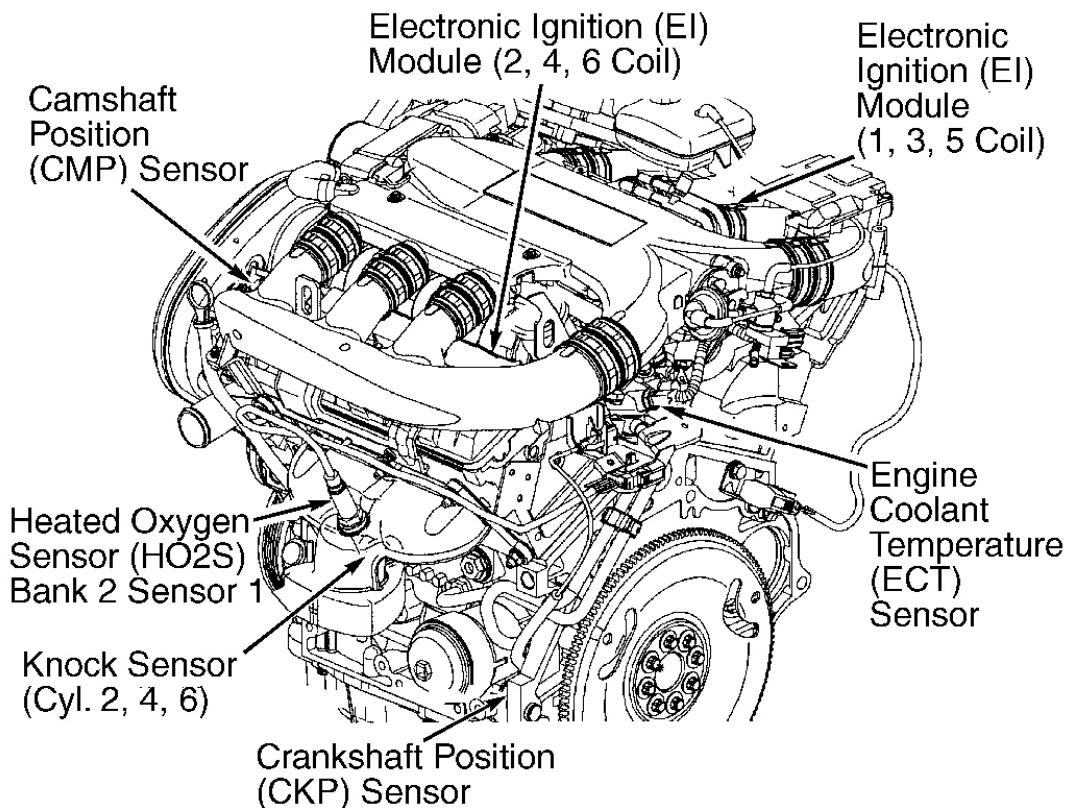


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Fig. 3: Right Rear Of Engine (3.0L)
Courtesy of GENERAL MOTORS CORP.

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3.0L

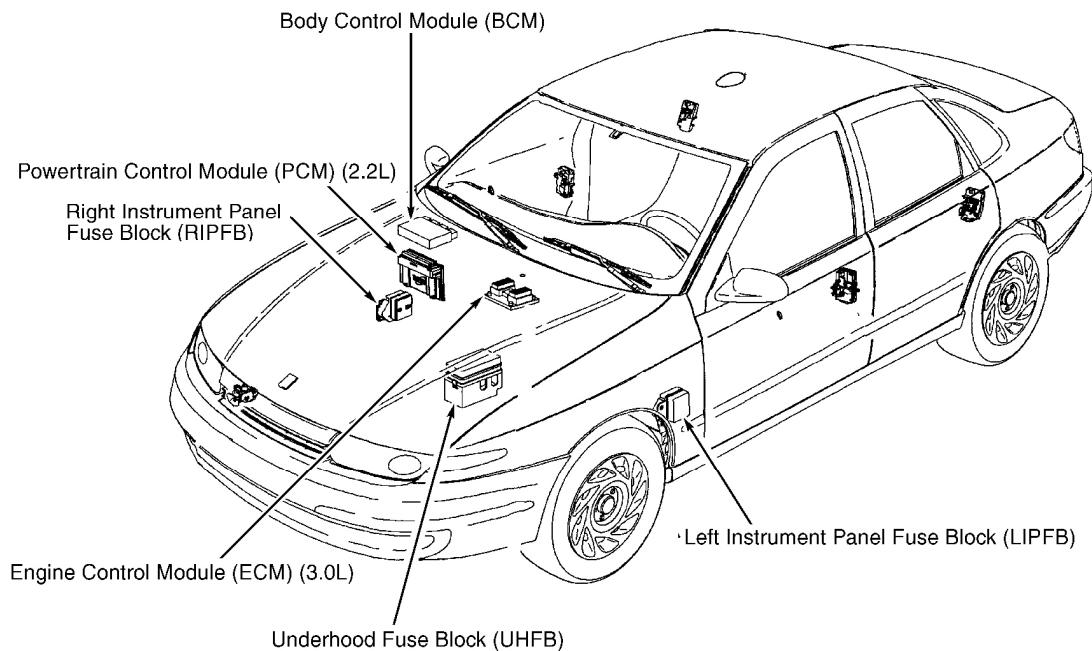
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Fig. 4: Left Rear Of Engine (3.0L)

Courtesy of GENERAL MOTORS CORP.

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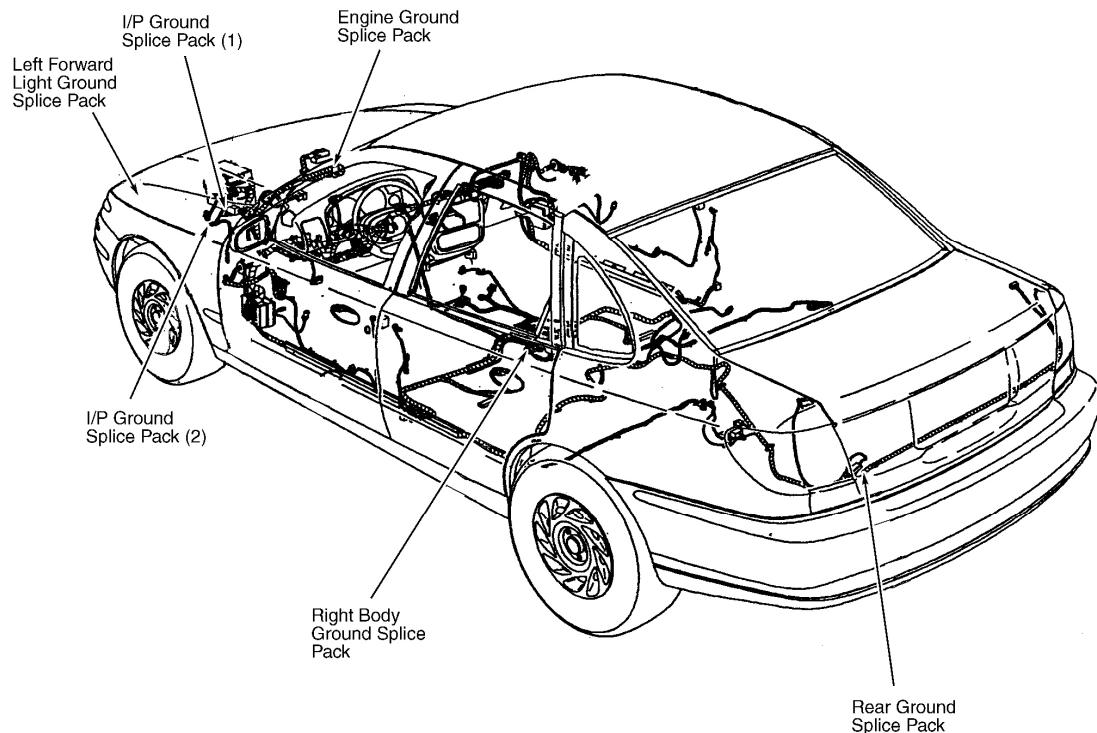
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Fig. 5: Vehicle Overview

Courtesy of GENERAL MOTORS CORP.



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Fig. 6: Vehicle Overview

Courtesy of GENERAL MOTORS CORP.